Para el siguiente grafo:



* 1. Encuentre (paso a paso) los costos mínimos de los caminos que parten del vértice **A** usando el algoritmo de Dijkstra

Iteración 1:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vértice** | **Seleccionados** |  | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***F*** | ***G*** | ***H*** | ***I*** |
|  |  | Costo |  |  |  |  |  |  |  |  |  |
| Anterior: |  |  |  |  |  |  |  |  |  |

Iteración 2:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vértice** | **Seleccionados** |  | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***G*** | ***G*** | ***H*** | ***I*** |
|  |  | Costo |  |  |  |  |  |  |  |  |  |
| Anterior: |  |  |  |  |  |  |  |  |  |

Iteración 3:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vértice** | **Seleccionados** |  | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***F*** | ***G*** | ***H*** | ***I*** |
|  |  | Costo |  |  |  |  |  |  |  |  |  |
| Anterior: |  |  |  |  |  |  |  |  |  |

Iteración 4:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vértice** | **Seleccionados** |  | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***F*** | ***G*** | ***H*** | ***I*** |
|  |  | Costo |  |  |  |  |  |  |  |  |  |
| Anterior: |  |  |  |  |  |  |  |  |  |

Iteración 5:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vértice** | **Seleccionados** |  | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***F*** | ***G*** | ***H*** | ***I*** |
|  |  | Costo |  |  |  |  |  |  |  |  |  |
| Anterior: |  |  |  |  |  |  |  |  |  |

Iteración 6:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vértice** | **Seleccionados** |  | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***F*** | ***G*** | ***H*** | ***I*** |
|  |  | Costo |  |  |  |  |  |  |  |  |  |
| Anterior: |  |  |  |  |  |  |  |  |  |

Iteración 7:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vértice** | **Seleccionados** |  | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***F*** | ***G*** | ***H*** | ***I*** |
|  |  | Costo |  |  |  |  |  |  |  |  |  |
| Anterior: |  |  |  |  |  |  |  |  |  |

Iteración 8:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vértice** | **Seleccionados** |  | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | ***F*** | ***G*** | ***H*** | ***I*** |
|  |  | Costo |  |  |  |  |  |  |  |  |  |
| Anterior: |  |  |  |  |  |  |  |  |  |

* 1. ¿Cuál es el camino entre el vértice A y el vértice I y cuánto es el costo de tal camino, de acuerdo con el algoritmo de Dijkstra?